

Integration of Learning Principles in health professionals' parent education practice:

a scoping review of the literature

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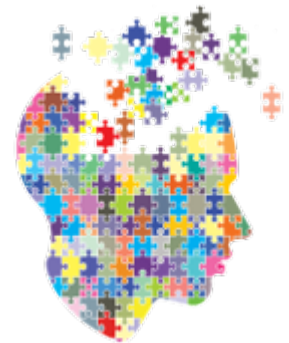
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Declaration and acknowledgement

- No conflicts of interest
- Thank you to my PhD supervisory team: Prof Esther May; Dr Matthew Leach; Dr Jenny Fereday; Dr Colleen Smith.
- Presenting scoping review results today: part of my PhD.

Implications for Practice

- Limited language to describe how HPs use Learning Principles in practice
- Gap in HPs' understanding of how people learn
- Need to explore and codify what is happening in parent education practice to improve practice



Background: Need for this review

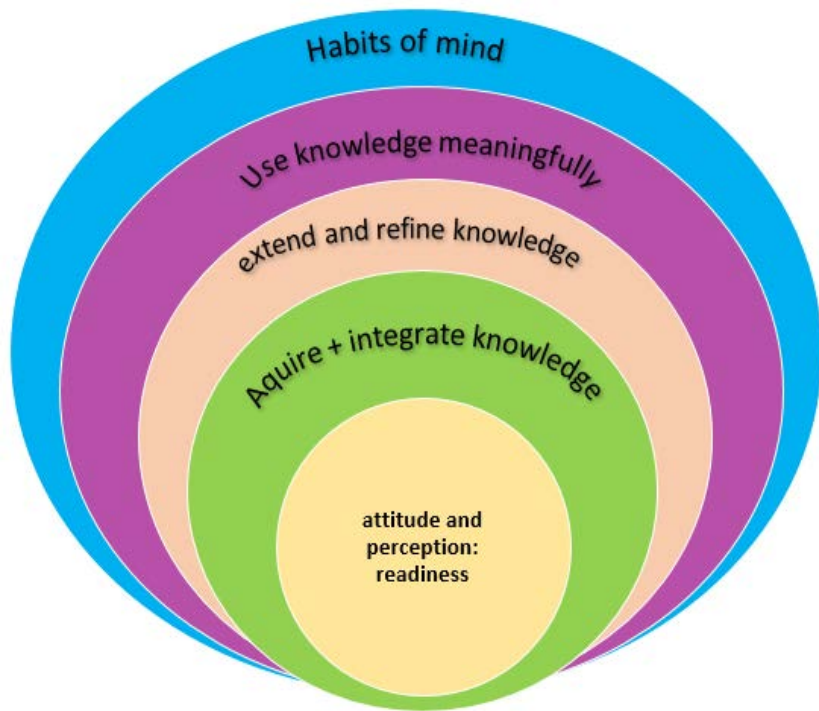
- Many successful Health Professional-led clinics for parent education^{1,2,3}
- Health literature on parent education focus: health literacy, learning modes, styles, needs^{3,4} rather than the *learning process using learning principles*^{5,6}
- No guide for HPs to know how to help learners develop analytical reasoning skills to master management of health at home⁴

Background: What are Learning Principles?

A series of interactive, cyclic processes which promote thinking, help people gain knowledge, connect new and existing knowledge and develop skills.

Through experience and instruction learners identify how to use knowledge, develop problem-solving skills and build strategies to achieve complex tasks to change behaviours^{5,6,7}

Marzano et al. (1997)⁸
The lens : Learning Principles in parent education practice



<p>Attitudes and perception</p>	<p>Learning worthwhile, achievable, Meaningful. Goals clearly defined</p>
<p>Acquiring and integrating knowledge</p>	<p>Understand declarative (factual) procedural (practical) knowledge. Breaking down tasks, explaining, step-by-step</p>
<p>Extending and refining Knowledge</p>	<p>Opportunities for learners to make more connections with knowledge & skills.</p>
<p>Applying knowledge meaningfully</p>	<p>Make decisions, use knowledge to come up with solutions</p>
<p>Habits of mind</p>	<p>Learners can operate on their own: habits become part of life.</p>

Aim of this Scoping Review ^{9,10}

To build a more comprehensive picture of health professionals' parent education practice by identifying the learning principles guiding their practice.

Findings: 89 papers

- 12 countries: mainly USA (46%), Australia (18%) and UK (15 %).
- Methodologically diverse: Qual. (25%); Discuss (19%); Mixed-method (14%).
- Mostly asthma (22%).
- HPs (57% nurses) cognizant parents' knowledge & attitudes important.
- 34/89 (38%) publications: learning principles aligning with Marzano et al⁸.
- Four themes emerged.

Theme 1: Divergent conceptualisations of learning

- Mostly learning needs, styles, literacy = learning process
- 13/89 (15%) thought adult principles (Knowles) = learning process but these only described knowledge transfer
- 34/89 (38%) publications described helping parents apply knowledge + develop thinking skills to use knowledge
- Only 16/89 (18%) described how HPs went about this

Theme 2: Divergent learning expectations

- Less awareness of what parents needed to learn: more HP's perception
- Parents wanted nurses nurture, guide, not to assume they know nothing
- Parents commonly reported needs not adequately met



Theme 3: Barriers and Enablers

Barriers	Enablers
Cultural	breaking tasks into steps
Mental health of parents	“seeing, doing, practising skills”
Language: nurses’ jargon for parents : no nurses’ meta-language for explaining learning in their parent education practice	

Theme 4: Limited evaluation of learning

Effective learning perceived by clinical outcome measures. QoL not as much gain

No cognitive assessment

Perception that learning and understanding shown in 'Knowledge Tests' and person stating back what was said to them

Most effective learning: Only 7% publications: *HPs seeing parents perform tasks until capable, scenario-based learning, parents can give rationales. Empowered*

Conclusion

- First study to explore Learning principles utilisation in parent education practice
- Lack of descriptions of how HPs use Learning Principles in practice^{5,6,7}
- Gap in HPs' understanding of how people learn and what parents hoped to learn¹¹
- Need to explore and codify what is happening in parent education practice¹²



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Thank you. Questions?

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